

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (canceled)

Claim 2 (Currently Amended): ~~In a~~ A mechanism for engaging an item of portable equipment to a belt clip system in which the portable equipment is provided with a first protrusion comprised of a short column and a flange, and ~~a plate surface of the belt clip is~~ includes a plate surface formed with an engaging part composed of frames arranged at both sides and a front plate formed with a substantial U-shaped recess having a released side and a fitting limit part, wherein the short column ~~at said portable equipment is~~ may be guided by the recess at said belt clip to cause the flange to be fitted to and held at the engaging part, thereby said portable equipment is removably attached to said belt clip, ~~an improvement in which~~ wherein the improvement comprises:

~~the said flange at of~~ said portable equipment ~~is constituted by~~ having a disc and ~~an~~ a continuous annular frame formed at the circumferential edge of the disc defining a locking recess[[,]] ~~the upper surface of the protrusion is in continuous with the~~ with an outwardly facing end surface and radially inwardly projecting cam engaging protrusion; of said annular frame under a state in which it is protruded inwardly from said annular frame, and in turn,

~~said belt clip is formed with a resilient claw cantilevered in relation to said plate surface and projecting along a portion of said plate surface, said claw having the a slanted side engagement surface corresponding to the said released side of the said recess at said engaging part and both side at least one slanted disengagement surface surfaces adjacent to the former side said engagement surface, applied as slant surfaces and having the other side surface as an engaging surface said engagement surface being operable to abut against said annular frame in an area opposing against a space between an inwardly directed surface of said cam engaging protrusion and said annular frame under a state in which the flange at said portable equipment substantially reaches the said fitting limit part of said engaging part and said claw is in said locking recess, its plate surface is formed with a substantial U shaped slit containing said claw inside to constitute a resilient cantilever beam and said disengagement surface being operable to slide over said cam engaging protrusion as said first protrusion is rotated to drive said claw out of said recess whereby said portable equipment may be removed from said belt clip.~~

Claim 3 (New): A mechanism for engaging a portable equipment to a belt clip including a clip portion for attaching to a belt, said mechanism comprising:

a first protrusion having a base for mounting to said portable equipment and an outwardly projecting reduced diameter column terminating in a flange formed by an enlarged disc with an outwardly projecting annular frame defining a claw receiving recess including a radially inwardly projecting cam engaging protrusion; and

an engaging plate coupled to said clip portion, said engaging plate including an engaging part spaced apart from an engaging plate by a pair of opposing side frames and supporting an outwardly facing front plate formed with a substantially U-shaped column guide slot having opposing sidewalls and an open end and a limiting end and being dimensioned to slidably receive said column of said protrusion, said engaging plate formed with a substantially U-shaped slit defining a resilient cantilever beam with a claw projecting toward said engaging part with said claw including an engagement cam surface corresponding to said open end of said U-shaped column guide slot and including at least one disengagement cam surface facing at least one of said sidewalls of said guide slot, said first protrusion being operable to slide down said guide slot with said column in said slot to engage said annular frame with said engagement cam surface to drive said claw toward said belt clip and to receive said claw in a seated position within said claw receiving recess as said column reaches said limiting end, said disengagement cam surface further being operable to engage said cam engaging protrusion and drive said claw from said claw receiving recess upon rotation of said first protrusion whereby said first protrusion may be slid toward said open end of said recess and removed from said belt clip.

Claim 4 (New): The mechanism as set forth in claim 3 wherein:

said outermost surface of the said cam engaging protrusion is flush with an outermost surface of the annular frame.

Claim 5 (New): The mechanism as set forth in claim 3 wherein:
said claw is in the form of a trapezoid when viewed from said open end of said
guide slot.

Claim 6 (New): The mechanism as set forth in claim 3 wherein:
said claw includes two opposing slanted disengagement cam surfaces.

Claim 7 (New): The mechanism as set forth in claim 3 wherein:
said engaging plate is pivotally connected to said clip portion.

Claim 8 (New): The mechanism as set forth in claim 3 wherein:
a surface of said claw opposing said engagement cam surface is parallel to an
interior of said annular frame when said claw is seated in said claw receiving recess.

Claim 9 (New): The mechanism as set forth in claim 3 wherein:
said annular frame is continuous.

Claim 10 (New): The mechanism as set forth in claim 3 wherein:
said engagement cam surface on said claw is adjacent two opposing
disengagement surfaces.

Claim 11 (New): The mechanism as set forth in claim 3 wherein:
said cam engaging protrusion includes opposing side walls projecting
perpendicularly to an outwardly facing surface of said annular frame.

Claim 12 (New): The mechanism as set forth in claim 3 wherein:
said engagement and disengagement cam surfaces are slanted in relation to said
beam.

Claim 13 (New): A method for removably attaching an item of portable
equipment to a strap of material comprising:
providing a first protrusion including a mounting base and an outwardly projecting
short column terminating in a flange with an annular frame defining a claw receiving
recess and a cam engaging protrusion projecting radially inwardly from said annular
frame;
mounting said base to said portable equipment;
providing a belt clip with a clip portion for insertion over said strap and an
engaging plate coupled to said clip portion, said engaging plate including an engaging
part spaced apart from an engaging plate by a pair of opposing side frames and
supporting an outwardly facing front plate formed with a substantially U-shaped column
guide slot having opposing sidewalls and an open end and a limiting end and being
dimensioned to slidably receive said column of said first protrusion, said engaging plate
formed with a substantially U-shaped slit defining a resilient cantilever beam with a claw

projecting toward said engaging part and having a slanted surface corresponding to said open end of said U-shaped column guide slot and at least one disengagement cam facing at least one of said sidewalls;

hooking said belt clip to said strap; and

sliding said first protrusion down said guide slot with said column in said slot to engage said annular frame with said slanted surface and drive said claw toward said belt clip until said column abuts said limiting end and said claw is in a seated position in said claw receiving recess.

Claim 14 (New): The method as set forth in claim 13 further comprising:

rotating said first protrusion to engage cam engaging protrusion with said disengagement cam of said claw to drive said claw from said claw receiving recess; withdrawing said first protrusion toward said open end of said recess and removing said portable equipment from said belt clip with one hand.

Claim 15 (New): The method as set forth in claim 14 further comprising:

rotating said first protrusion about 180 degrees prior to removing said portable equipment from said belt clip.

Claim 16 (New): The mechanism as set forth in claim 3 wherein:

said cam engaging protrusion includes at least one sliding wall element projecting from an outwardly facing surface of said disc; and

said disengagement cam surface includes at least one complementary sliding wall element whereby said sliding wall elements cooperate to form a sliding pair for driving said claw from a seated position out of said recess when said first protrusion is rotated.

Claim 17 (New): The mechanism as set forth in claim 16 wherein:

said sliding wall element of said cam engaging protrusion projects perpendicularly from said outwardly facing surface of said disc; and

said complementary sliding wall element is slanted in relation to said beam.

Claim 18 (New): The mechanism as set forth in claim 3 wherein:

said cam engaging protrusion including a first side wall and a second side wall with both side walls projecting perpendicularly from an outwardly facing surface of said disc, said cam engaging protrusion further including an outermost extent flush with an outermost surface of said annular frame.

Claim 19 (New): The mechanism as set forth in claim 18 wherein:

said claw includes a disengagement cam surface having a first slanted surface and a second slanted surface whereby said first side wall and said first slanted surface cooperate to drive said claw in a seated position out of said recess when said protrusion is rotated in a clockwise direction and said second side wall and said second slanted surface cooperate to drive said claw in a seated position out of said recess when said protrusion is rotated in a counterclockwise direction.

Claim 20 (New): The mechanism as set forth in claim 3 wherein:
said disengagement cam surface includes two opposing disengagement surfaces
that are slanted in relation to said beam.

Claim 21 (New): The mechanism as set forth in claim 20 wherein:
said engagement cam surface is slanted in relation to said beam and is adjacent
said disengagement surfaces.

Claim 22 (New): The mechanism as set forth in claim 21 wherein:
a surface of said claw opposing said engagement cam surface is parallel to an
interior wall of said annular frame when said claw is seated in said claw receiving recess.

Claim 23 (New): The mechanism as set forth in claim 4 wherein:
said cam engaging protrusion tapers inwardly from said annular frame in a radially
inward direction.